

ELECTRODEPOSITABLE COATING COMPOSITIONS AND RELATED METHODS

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ABSTRACT

Provided is an electrodepositable coating composition of a resinous phase dispersed in an aqueous medium, the resinous phase including (a) an active hydrogen-containing, cationic salt group-containing resin; and (b) an at least partially blocked polyisocyanate curing agent. The composition contains an organotin catalyst which is or is derived from a dialkyltin compound having the structure (I):



where R_1 and R_2 are the same or different, and each independently represents a monovalent hydrocarbon group wherein the sum of the carbon atoms in R_1 and R_2 is greater than 8. The catalyst is present in an amount sufficient to effect cure at a temperature at or below 340°F (171.1°C). Methods of preparing and using the composition also are provided.